

2018	Local Oscillator	September
	Local Oscillator	
Mesilla Valley Radio Club		

This is a pdf file. It will print easily. A free pdf file reader is at <http://www.adobe.com>

Current Events			Table of Contents
Date	Event	Time	New Repeater Club Location Club Officers Membership Application
Sat	Informal at Cracker Barrel	6:00 AM	
M, W, F	Informal Wal-Mart (West)	10:00 AM	
Wed	MVRC Net 146.64	6:45 PM	
Tue	Informal Breakfast	Denny's 3901 Bataan Memorial West	
Oct 4	Board Meeting Club House	7 PM	
Sept 1	Meeting Club House	8 AM	
Sept 1	Program Club House	8:45 AM	
Sept 4	Builder's Group Club House	7PM	
Sept 11	Builders Group Club House	7 PM	
Sept 18	Builders Group Club House	7 PM	
Sept 25	Builders Group Club House	7 PM	
Sept 1	Alamagordo Ham-fest		
For more events see http://www.n5bl.org/calendar			



More information at <http://swantenna.com>



KF5KHL with Newly Installed 6 m Repeater

The Articles for This Month

Six Meter Repeater Install

KF5KHL

On August 09 at 0830 a crew from the club too the 6 m repeater from the club house and installed it on the same mountain as the 146.64 repeater. The crew consisted of Denver and Dwight Bird, Michael and Lloyd Naylor, Dave Hassall, Rob Truitt and Furman Smith. It took quite some time, but all were back before noon.

It was quite a ride up to the site, navigating a narrow road at a 39 degree incline. It didn't seem to bother the old Suburban. Rob got to acid test his new Honda truck too.

As you can see on the next page, You get quite a view of the vally from the mountain top. It is no wonder that the repeaters up there have quite good coverage.

Michael and Denver did the antenna and transmission line install, Dave and I and others installed the repeater and duplexer.

We are in the process of determining the footprint of the coverage. So far, it



View of the Valley from the Mountain Top

looks pretty good considering the location of the antenna.

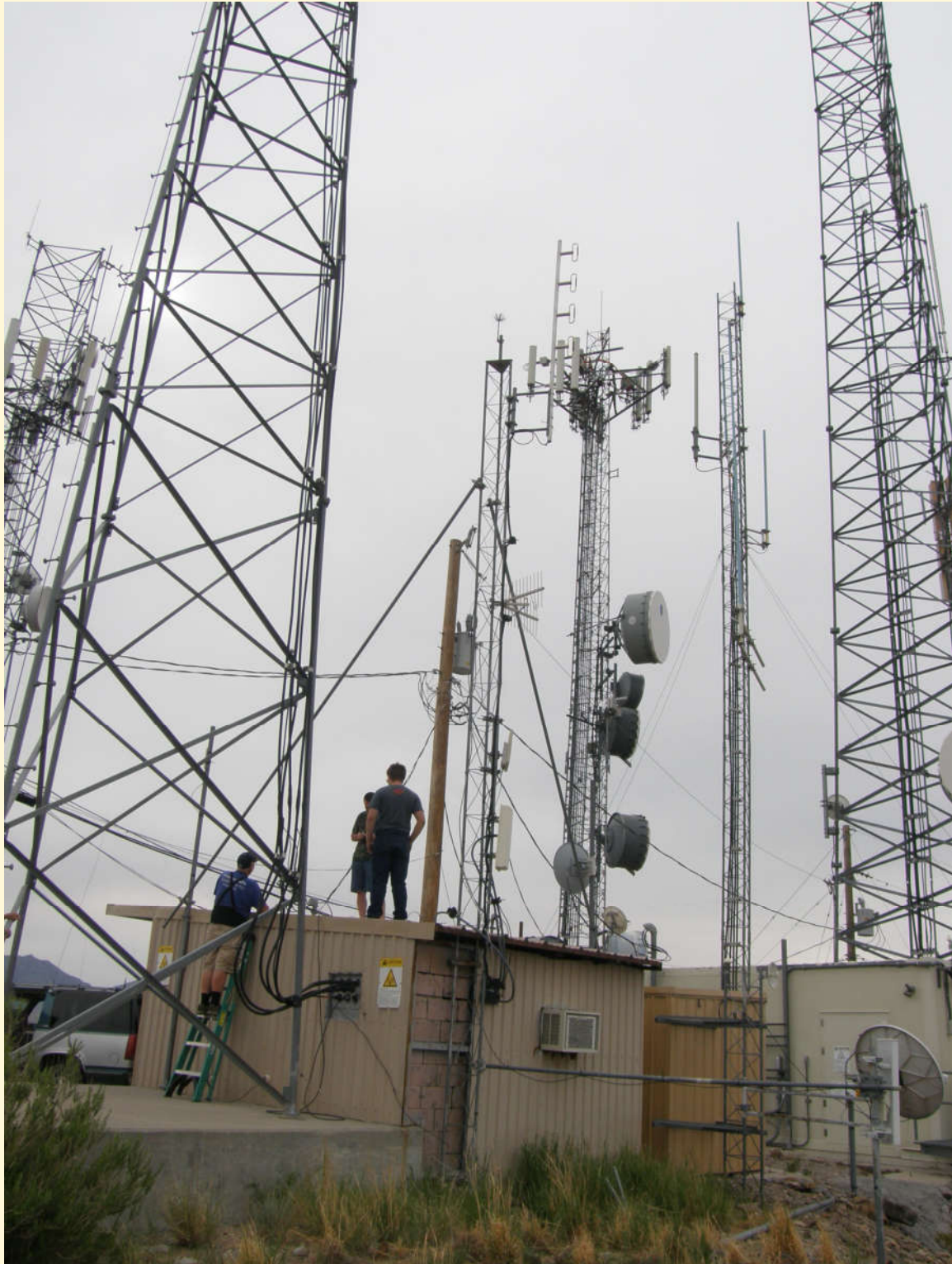
To access the repeater, you need to transmit on 52.750 Mhz with a CTCS of 141.3 Hz and receive on 53.750. The repeater also transmits CTCS of 141.3 Hz so you can set your receiver to coded squelch if desired.

The repeater was built from a modified pair of old Motorola Maratrac mobile radios housed in a Motorola Micor cabinet with a 45 amp power supply, interface board, and a home brew control panel. Cooling is done with 2 fans operated with a digital temp controller. The repeater can produce 40 watts of power continuously.

The duplexer was fabricated from 8 lengths of 1-5/8" Heliax cable mounted in a plywood frame. Each piece of cable "cell" incorporates a copper enclosure and a gimmick capacitor with RF connectors, each carefully tuned to notch the undesired frequency. The "cells" were interconnected to produce an outstanding 95 db of isolation.

A lot of effort and knowledge went into the building and installation of this fine repeater. As a result, the club has one of the best 6 m repeaters in New Mexico.

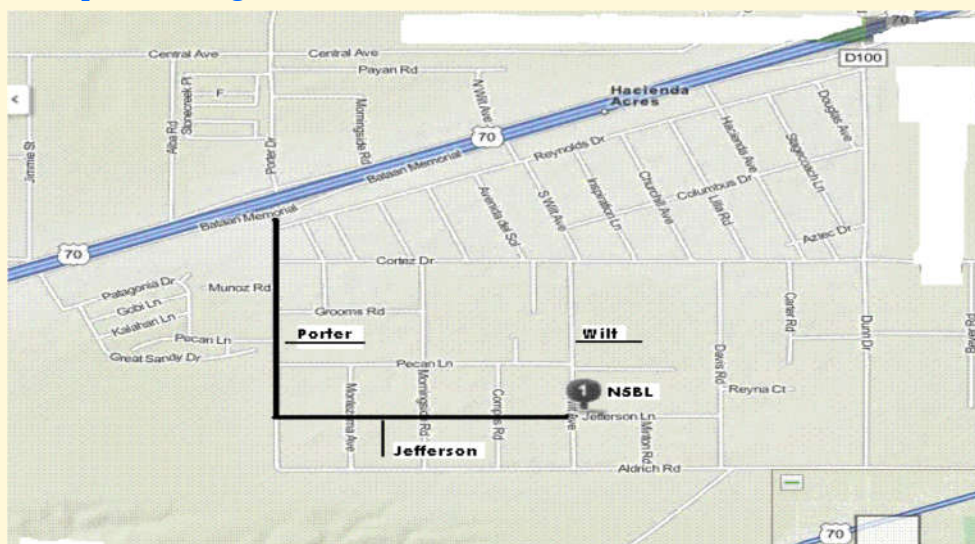
To give you some idea of the work necessary to install the repeater, take a look at the antennas already on the mountain top as shown below,



2018	Local Oscillator	September
------	------------------	-----------

CLUB INFORMATION

The MVRC Clubhouse is located at the intersection of Wilt and Jefferson. To find the clubhouse, set your destination on your GPS receiver as 32 degrees 22.961 minutes and -106 degrees 41.44 minutes. If you don't own a GPS, take the Porter exit near the firehouse on US 70. It is about 5 miles east from the I 25 interchange. Go south on Porter until you come to Jefferson. There turn left toward the mountains and go to Wilt. You will see the beam on the corner. The treasurer would be delighted to receive your contribution for landscaping and furnishing. More information at <http://n5bl.org>



Officers				
Office	Name	Call	Phone	E-Mail
President	Sven Breden	K5SHB	635-0414	sven.breden@gmail.com
Secretary	Kyle Gesswein	KY2LE	640-5301	kgesswein@comcast.net
Treasurer	Furman Smith	KF5KHL	382-5982	smithf@zianet.com
Board Members				
Education	Cash Olsen	KD5SSJ	382-1917	kd5ssj@arrl.net
Clubhouse	Lloyd Naylor	N5MSZ	373-1028	lloyd88012@yahoo.com
Newsletter	Alex. Burr	K5XY	522-2528	k5xy@arrl.net
Repeater	Robert Truitt	KE5OFK	649-4173	robhtruitt@zianet.com
Commo	George Kopp	KD5OHA	649-9503	geokd5oha@yahoo.com
Special	Earl Drexler	N5TMT	639-0556	earld7@yahoo.com
IT	Charles Combs	KG5BVE	649-1071	kg5bve@gmail.com

JOIN THE MESILLA VALLEY RADIO CLUB

Name(s) _____

EMAIL _____

If you want confirmation that your payment was received and processed, please include your email address

Street Address _____ PO Box# _____

City _____ Zip _____ Phone _____

To join the Mesilla Valley Radio Club or renew your membership, please complete this form and print or cut out. Send it to **"Treasurer, MVRC, PO Box 1443, Las Cruces, NM 88004"** with annual dues (\$35 single, \$45 family)

Date: _____ Method of payment: Check No. _____ Other _____

Call Sign(S) _____ Family Membership Yes _____ No _____

License Class (E, A, G, T, N) _____ ARRL Member? (Y/N) _____

Are You a ARRL Volunteer Examiner (Y/N) _____

Would you like to be added to the MVRC reflector (email information system)? _____

Interests

Computer _____ Contests _____ Digital _____ Elmer _____ Emergency Communications _____

Field Day _____ Packet _____ Programs _____ Public Service _____ Publicity _____ RFI _____

Repeater _____ Social _____ License Classes _____ Teach Licensing Classes _____

Volunteer Examiner _____ QRSS _____ Other _____

Comments